

Listing of Claims:

1. (Currently Amended) * An electrostatic attraction type
liquid ejection apparatus comprising:

a liquid ejection head having a nozzle with an inner
diameter of at most 15 μm ;

5 an ejection voltage supply to apply an ejection voltage to a
solution inside the nozzle so as to charge the solution, the
ejection voltage supply including an electrode which contacts
with the solution to charge the solution;

10 a convex meniscus generator to cause the solution inside the
nozzle to rise from the nozzle in a convex shape; and

an operation controller to control application of a drive
voltage to drive the convex meniscus generator and application of
the ejection voltage by the ejection voltage supply so that the
drive voltage to the convex meniscus generator is applied in a
15 timing ~~overlapped with~~ corresponding to the application of a
pulse voltage as the ejection voltage by the ejection voltage
supply;

wherein the operation controller controls a voltage having a
reversed polarity to the ejection voltage to be applied by the
20 electrode to the solution inside the nozzle just before or just
after the ejection voltage is applied to the solution inside the
nozzle.

Claim 2 (Canceled).

3. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 1, wherein the operation controller applies the drive voltage to the convex meniscus generator in advance, and also in the timing overlapped with
5 corresponding to the application of the pulse voltage as the ejection voltage by the ejection voltage supply.

4. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 1, wherein the liquid ejection head includes a plurality of nozzles each of which has a corresponding one of the convex meniscus generator.

Claims 5 and 6 (Canceled).

7. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 3, wherein the liquid ejection head includes a plurality of nozzles each of which has a corresponding one of the convex meniscus generator.

Claim 8 (Canceled).

9. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 1, wherein the inner diameter of the nozzle is between 0.2 μm and 8 μm .

10. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 9, wherein the inner diameter of the nozzle is between 0.2 μm and 4 μm .

11. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 1, further comprising an opposing electrode having an opposing surface which faces a top portion of the nozzle and which supports a substrate.

12. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 4, further comprising an opposing electrode having an opposing surface which faces top portions of the plurality of nozzles and which supports a
5 substrate.

13. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 12, wherein the opposing electrode is provided in common for the plurality of nozzles so as to face the top portions of the plurality of nozzles.

14. (Currently Amended) The electrostatic attraction type
liquid ejection apparatus of claim 4, wherein the ejection
voltage supply is provided in common for the plurality of nozzles
so as to apply the ejection voltage to the solution inside each
5 of the plurality of nozzles.

15. (Currently Amended) The electrostatic attraction type
liquid ejection apparatus of claim 1, wherein the liquid ejection
apparatus is provided in an ink jet printer.

16. (Currently Amended) The electrostatic attraction type
liquid ejection apparatus of claim 1, wherein the inner diameter
of the nozzle is uniform through a length of the nozzle.

17. (Currently Amended) The electrostatic attraction type
liquid ejection apparatus of claim 1, wherein the inner diameter
of the nozzle is tapered.

18. (Currently Amended) The electrostatic attraction type
liquid ejection apparatus of claim 17, wherein the inner diameter
of the nozzle is larger at a solution-chamber side of the nozzle
and gradually decreases toward an ejection-opening side of the
5 nozzle.

19. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 1, wherein the nozzle has a substantially conical shape.

20. (Currently Amended) The electrostatic attraction type liquid ejection apparatus of claim 1, wherein the nozzle has a height of approximately 100 μm .